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TO IC DECODER

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2.2. Stereo is a driving force

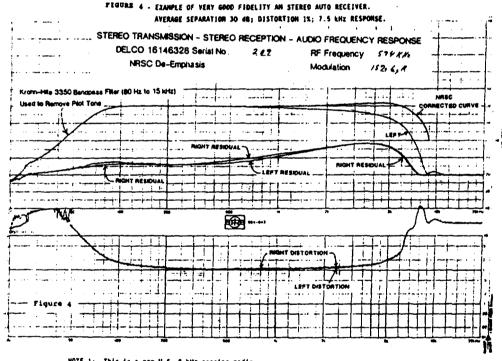
In the early days of stereo experimentation, J.K. Hilliard concluded that even narrow band stereo had far more entertainment value than monaural high fidelity.2 Since then, the evolution of multi-channel sound has been relentless. Virtually all entertainment products and services include the stereophonic feature. FM, TV, Hi-Fi's, analog tapes, compact discs, DAT tapes, movies, etc., all provide stereo. Entertainment products and services of the future, such as EDTV and HDTV, not only intend to use stereo, but intend it to be of the highest quality. There is no doubt that this has become a stereo world. To compete for listener's attention without stereo is to accept an unnecessary handicap.

2.3. What kinds of AM radio improvement can be ejected from stereo?

Figure 4 and Figure 5 depict the performance of today that can be expected due to AM Stereo receiver design. These data are abstracted from receivers submitted to Japan's MPT AM Stereo Committee. As can be seen, the auto receiver, which compensates for NRSC pre-emphasis, has an effective 6 dB stereo bandwidth of 7.5kHz. This effective bandwidth is achieved even though the receiver is specifically designed for the closer, foreign 9 kHz frequency assignments. Separation averages 30 dB. Figure 5, a Hi-Fi type AM Stereo receiver, illustrates an NRSC compensated AM Stereo bandwidth of over 10 kHz and separations greater than 40 dB!

Make no mistake about it, the stereo feature has been the driving force behind

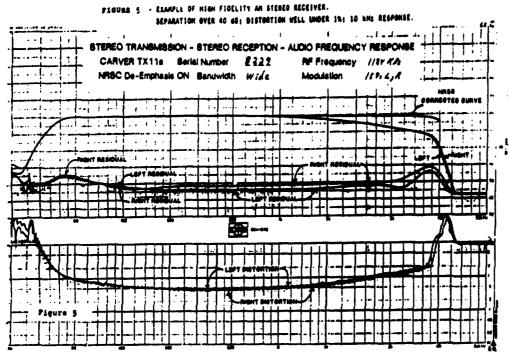
these kinds of performance figures.



NOTE 1: This is a non U.S. 9 kHz spacing radio.

NOTE 2: Reproduced from test receivers data bank submissions to Japan's MPT.

²Hilliard, J.K. "Audio quality-intermodulation tests" (review of I.R.E. paper) Elect. 19.4 (April, 1946) 218.



NOTE 1: Reproduced from test receivers data bank submissions to Japan's NPT.

2.4. Why stereo for AM improvement?

It is anticipated that AM Radios may also improve significantly due to the adoption of the NRSC standard de-emphasis and NRSC suggested performance minimums. There is no doubt that these kinds of actions will help. To the listeners, any actions that reduce interference will also improve the perceived quality of the AM service. However, remaining deterrents to wider receiver bandwidths are the effects of broadcast station audio processing techniques and transmitter distortion. Many broadcast stations are adjusted to m loudness while maintaining good sound in a typical narrower bandwidth AM monaural receiver. This makes good sense in view of the nature of their market and the preponderance of narrow band monaural receivers. However, transmissions that may sound good in a typical narrow band mono receiver can sound somewhat distorted to the listener of a wide band or high fidelity receiver.

The situation typically changes for the stereo broadcast. The presence of the stereo pilot tone is a high probability indicator that many quality control steps were taken in the process of station conversion to stereo.

The AM Stereo receiver typically adds an integrated circuit to recognize the pilot tone, validate the signal, and decode the stereo. An IC is necessary because these are a complicated set of functions that would be very high in cost without such a dedicated IC. One truly great benefit about IC's is that once one is committed to a certain set of functions, a little extra silicon to perform even more functions costs very little at the margin. This is why AM receivers can look forward to so many additional features as a result of adding the stereo IC. Furthermore, as additional competition develops and subsequent generations of IC designs are implemented, the function density (features and performance) may be expected to increase and the cost per function to decrease.

3. DETERRENTS TO AM IMPROVEMENTS OFFERED BY STEREO

3.0 General

There have been many deterrents to the growth of AM Stereo. First, the AM broadcasters were steadily losing ground to FM. Reduced revenues were not conducive to investing in a confusing multi-system arena of AM Stereo. Similarly, many receiver manufacturers' profits were less than satisfactory. Hence, there was not a great deal of incentive to add cost to address a multi-system arena. In addition, concern for possible anti-trust violations prevented groups of broadcasters, groups of re-ceiver manufacturers, trade associations, and broadcast equipment manufacturers

from jointly suppor terrents.

TABLE 3.-MAI

 Justice Depart Receiver inc adopt an indus Groups of re Groups of br

 Fiece propone ceiver manufacture

- Multi-system:
- C-QUAM, as t
- Broadcast stat
- Foreign receiv
- Because the is
- tant to continue th

Litigation fear

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3.1 Broadca

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AM Stereo has percent level. This radio manufacture the U.S. competitic

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iddition, congroups of reanulacturers from jointly supporting one system or another. Table 3 is a list of some of these deterrents.

TABLE 3.—MARKETPLACE DETERRENTS TO STEREO AM CAUSED SLOW GROWTH

• Justice Department concerns

Receiver industry and broadcast industry trade associations reluctant to adopt an industry standard.

Groups of receiver manufacturers reluctant to jointly support one system.

Groups of broadcasters reluctant to jointly support one system.

• Fiece proponent versus proponent competition—Confused broadcasters and receiver manufacturers.

• Multi-system radio falsely observed as a panacea by some.

C-QUAM, as the leader, frequently became a target for complaints.

Broadcast station reluctance to convert without many receivers and types.

Foreign receiver manufacturers reluctance to participate with non-auto receivers.

Because the initial choice of a standard was challenged, the FCC became reluctant to continue the standards process.

Litigation fears.

The real wonder of AM Stereo is that it has progressed as well as it has in the face of these obstacles. Great credit is due to those broadcasters, receiver manufacturers, and other equipment manufacturers who stepped into this forest of impediments and brought AM Stereo to its present stage of development.

3.1 Broadcaster deterrents

Motorola has been surveying U.S. broadcasters for several years. About 35 to 40 percent of the respondents to the related questions rank lack of a standard and lack of receivers as major reasons for not converting to stereo. These question responses are lumped because it is Motorola's conviction that the lack of non-auto recievers is, to a large part, due to the lack of a standard.

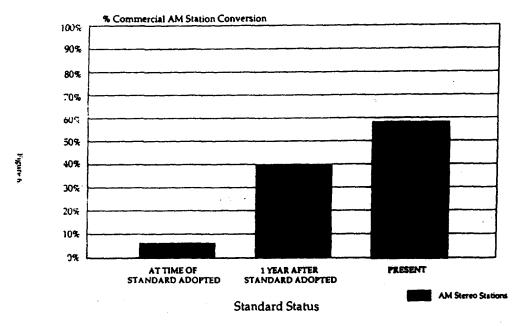
AM Stereo has penetrated the new car auto radio market to a 15 percent to 20 percent level. This penetration by the new service is largely a result of domestic car radio manufacturers setting the pace. Foreign auto radio suppliers have had to meet

the U.S. competition.

Now consider the non-auto radio markets, which account for volumes that are more than two times greater than auto radios. The AM Stereo penetration of these radios, such as the personal portables, portables, boom boxes, table/bedroom/kitchen types, component modular systems, Hi-Fi, etc., is almost negligible. But the design and manufacture of the vast majority of these non-auto radios are from foreign countries. These suppliers may be reluctant to invest in a foreign market that has no official government standard.

The Motorola broadcaster surveys also show another factor for non-conversion is cost. But Motorola believes that even this factor is colored to a certain extent by lack of a standard. The lack of a standard makes the investment an "elective" expenditure when only 17 percent of the broadcasters have converted. But, if nearly 60 percent of the broadcasters were converted, as in Australia, the need to convert to remain competitive would become an accepted "must do" expenditure. See Figure 6 for the impact of a stereo standard on Australia commercial broadcasting.

IMPACT OF STEREO STANDARD ON AUSTRALIA



Note: Australia has approximately 139 commercial AM statio

nie 🗅 Nearly 60% of commercial AM stations in Australia broadcast in AM Stereo, compared with about 17% in the United States

3.2. Receiver manufacturers

In Section 1, the status of the progress of the AM Stereo receiver feature was reviewed. About 15 percent to 20 percent of the new automobiles sold in the U.S. have AM Stereo. Section 2 illustrates why AM Stereo results in a host of AM receiver improvements. Still, there has been almost no penetration of AM Stereo into the non-auto radio markets. It was also noted that the vast majority of the design and manufacture of these non-auto products are controlled by foreign interests. In contrast, the auto radio competition is set by U.S. domestic manufacturers; other participants must include the stereo feature to compete. As long as the leading foreign manufacturers do not produce significant numbers of non-auto AM Stereo radios, the other hundreds of manufacturers do not need to offer AM Stereo in order to compete.

When queried, there are "reasons" offered by these manufacturers for non-participation. Among these reasons are:

There is no market demand.

Designs will be offered after a market is established.

• At least 1000 broadcast stations are needed to create a receiver market * * *

Other comments include the inability to advertise nationally due to limited mar-

ket and/or difficult advertising constraints.3

Note that the growth rate of TV Stereo, where at least an industry standard exists, has resulted in a penetration of about 40 percent. In addition, based again on our broadcast survey results, the NRSC pre-emphasis industry standard has already been incorporated by the majority of the AM broadcasters. Clearly, these examples show that the impact of a standard, government or industry, is manifest.

Finally, it is worth noting that the domestic auto radio manufacturers moved forward with AM Stereo in spite of all the above cited reasons not to. Many U.S. broadcasters have done likewise. This kind of leadership has always been necessary to establish any new feature or service. But these leaders need help to fully develop AM Stereo. Many more broadcasters and receiver manufacturers must join in. For anyone to say there is no market is a most curious comment. First, there is a very substantial auto radio AM Stereo market. Second, there is never any market until the investments and hard work of the imaginative leaders begin to bear fruit.

4.0 Other AM i

These comments ha feature is absolutely r In addition, the stere direct and by-product ports AM Stereo to th participated in, and h receiver design, stand reduce interference.

4.1 Legislation

Motorola is genera broadcast standards. of a government stan possibility has been tions.

In addition, the ch has been perpetuated of almost all of these that these interests

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4.2 An AM stei

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However, the marl gain reasonable fore has negatively affect circle of slow growth Given the circumst

place has accomplish • The vast majori The vast majorit

Butthe growth rate FCC acknowledge might accelerate ste years ago have with Should a path be fou torola would take re broadcasters who no

Motorola is of the U.S. de facto standa ard in a decisive, ex expedient methodolo be taken. At this la rulemaking proceedi broadcasters, the rac

4.3. The futur

C-QUAM has beca tralia, Brazil, and S standard. It is awky of its birth and devel

No one can predic present government cent months. The ala

• Broadcaster con manufacturers.

³ Manufacturers consider it negative if an advertisement must say or read ** * * This radio only receives the C-QUAM stereo system. * * * There are several other FCC approved systems. * * *" or words to that effect.

There is a facetious take away the FM radiscenario is readily reco handicaps of AM radio.

4. CONCLUSIONS AND RECOMMENDATIONS

4.0 Other AM improvements

These comments have focused on AM Stereo because of conviction that the stereo feature is absolutely necessary to even have a chance to compete in today's markets. In addition, the stereo feature results in many broadcast and receiver performance direct and by-product improvements. This is not to imply that Motorola only supports AM Stereo to the exclusion of other AM improvements. Motorola supports, has participated in, and has contributed to industry efforts to improve AM radio through receiver design, standardized pre-emphasis, and standardized emissions masking to reduce interference.

4.1 Legislation considerations

Motorola is generally not supportive of congressional legislation to mandate broadcast standards. Such things are best left to FCC determination. In the absence of a government standard, AM radio need the help of an industry standard, but this possibility has been stymied due to legal concerns of the relevant Trade Associa-

In addition, the chicken and egg of "more receivers<--->more broadcast stations" has been perpetuated and stymied by a lack of stereo non-auto radios. The supply of almost all of these radios is controlled by foreign interests. It is almost certain

that these interests have been negatively affected by the lack of a U.S. standard. Given this unique set of circumstances, it appears that it may be appropriate to search for a path whereby the existing U.S. de facto standard may expediently be recognized.

4.2 An AM stereo standard

In 1982, the FCC took a bold and imaginative step in declaring that the market-place is the correct forum to establish an AM Stereo broadcast standard. In one sense, that decision was a tremendous success: the marketplace spoke. AM Stereo has continuously evolved to essentially one dominant system.

However, the marketplace dominance of a single system has been insufficient to gain reasonable foreign receiver manufacturer participation to date. This, in turn, has negatively affected broadcaster willingness to invest in stereo. And the resulting circle of slow growth continues.

Given the circumstances surrounding the present status of AM radio, the market-place has accomplished and is accomplishing all it can do:

• The vast majority of AM Stereo broadcasters are on C-QUAM.

The vast majority of AM Stereo radios are C-QUAM.

Butthe growth rate is too slow to greatly have an impact on AM radio needs. FCC acknowledgment that the marketplace has converged to a single system might accelerate stereo growth for AM radio. The other approved systems of ten years ago have withdrawn or have decisively lost in the marketplace competition. Should a path be found that leads to the adoption of C-QUAM as the standard, Motorola would take reasonable steps to soften the economic impact on those very few broadcasters who now employ another system and who would have to change.

Motorola is of the conviction that it would be very beneficial to AM Radio if the U.S. de facto standard could somehow become the official national broadcast standard in a decisive, expedient manner. On the other hand, if there is no clear cut and expedient methodology whereby this objective can be achieved, the no action should be taken. At this late date, any long drawn out process or initiation of a normal rulemaking proceeding, would only increase uncertainty and further confuse the broadcasters, the radio manufacturers, ad other countries.

4.3. The future of AM stereo

C-QUAM has become the national broadcast standard in Canada, Mexico, Australia, Brazil, and South Africa. Most recently, Japan has adopted C-QUAM as its standard. It is awkward that this system of choice is not a standard in the country of its birth and development.

No one can predict whether AM Stereo will live or die aS a direct result of any present government inaction or action. The past growth has noticeably slowed in recent months. The alarming points of concern that can be made are:

 Broadcaster conversion rates are too slow to meet the needs of foreign receiver manufacturers.

leading foreign Stereo radios, reo in order to for non-partici-

- market * * *

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ers moved formy U.S. broadn necessary to o fully develop st join in. For there is a very / market until ar fruit.

• • • This radio proved systems.

AM Stereo Stations feature was re-1 the U.S. have of AM receiver Stereo into the the design and terests. In conrers; other par-

There is a facetious alternative which would also increase AM radio competitiveness. Simply take away the FM radio stereo feature and also significantly limit its bandwidth. This fictitious scenario is readily recognized as a ridiculous step backwards, yet it does describe the market handicaps of AM radio.

Foreign receiver manufacturers have not moved toward AM Stereo in non-auto

Profession receiver manufacturers have not moved toward AM Stereo in non-auto products. Lack of these receivers impedes the broadcaster conversion rate. On the world scene, Japan has taken a leadership position and chosen C-QUAM as its national broadcast standard. It is reasonable to expect that other A/P nations will gradually follow Japan's lead. The Asia Pacific region is the most significant source of non-auto receivers to the U.S. market. Once the Asia Pacific market is supplied with AM Stereo radios, there is every reason to hope that the manufacturers will also supply the U.S. market by tacking on additional manufacturing. Hence, thanks to Japan's decision, it may be that the U.S. will eventually receive the quantities of stereo radios necessary to heleter the AM Radio Service. On the other hand titles of stereo radios necessary to bolster the AM Radio Service. On the other hand, if the Asia Pacific continues its non-US. participation, and the above circle of slowing growth conditions continues, the stereo feature for AM radio will have a very doubtful future.

The Appendix is attached to these comments and its data are offered for the record. Motorola is most appreciative to have this opportunity to share our AM

Stereo experience and observations.

C-Q

YEAR STA

1982

1983

1984

1985

1986

1987

1988

1989

1990

1991

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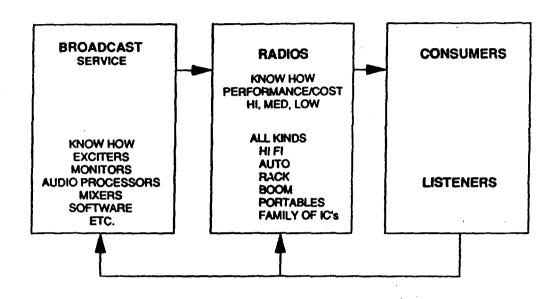
offered for the share our AM

APPENDIX

C-QUAM AM STEREO NOTABLE EVENTS

YEAR	STATIONS ON AIR	NOTABLE EVENTS
1982	2	• 1st U.S. installed C-QUAM STATION.
1983	67	 1st Foreign (Canada) installed C-QUAM stations.
		 Delco and Pioneer C-QUAM auto receivers introduced.
1984	204	1st Australian C-QUAM.
1985	349	· AUSTRALIA ADOPTS C-QUAM.
		Chrysler, Ford, Nissan, Toyota offer C-QUAM.
1986	485	· BRAZIL ADOPTS C-QUAM.
		Chrysler makes C-QUAM standard in all vehicles that have FM stereo radios.
		 AMC / Jeep, Volkswagen, Mercedes, and Mazda add C-QUAM.
		 More than 20 C-QUAM aftermarket receivers at Summer CES.
1987	598	· CANADA ADOPTS C-QUAM STANDARD.
		 NTIA recommends C-QUAM pilot tone protection to FCC.
1988	641	 FCC COMMISSIONERS DECLARE THAT C-QUAM IS DEFACTO AM STEREO STANDARD.
1989		• 1st C-QUAM portable receivers available.
1990		· MEXICO ADOPTS C-QUAM STANDARD.
1991	. 865	· JAPAN ADOPTS C-QUAM STANDARD.

A BROADCAST STANDARD IS A "SYSTEM" OF INGREDIENTS



- ☆ THE LINKS OF THE "CHAIN" REQUIRE ALL OF THE NECESSARY TOOLS TO IMPLEMENT THE SYSTEM.
 - **STANDARD**
 - **BROADCAST EQUIPMENT**
 - RADIOS
- AM STEREO'S WEAKEST LINK HAS BEEN THE NEED FOR MORE RADIOS.

BROADCAST INDUSTRY-U.S.

- AM market share about 1/3 AM.
- Only about 1/2 AM broadcasters profitable.
- Recessionary for many markets.
- Estimate that 30 percent of those who can afford C-QUAM have it.
- Cost of conversion is a major factor for many.
 Pending new FCC rules had depressing effect due to injection of uncertainty in 1990, 1991. New FCC rules will help, but not quickly.
 - Prospect of DAB also having negative effects on conversions.
 - · Lack of more radios is most often cited as reason for non-conversion.

RECEIVER INDUSTRY-U.S.

- Virtually all non-auto sets imported from A/P.
- · Low profits—many participants.
- AM stereo not needed—except defensively. Ergo if leaders do not participate, no one has to.
 - Cost reduction pressures.
- The A/P region has chosen to not participate in the U.S. market with non-auto radio AM stereo products.

STANDARDS STATUS SUMMARY

U.S.—De facto standard, >650 stations on air.

Japan-C-QUAM st Region 1-C-QUAN France; and Spain, 2. Region 2—C-QUAN other South American Region 3-C-QUAN clude, Thailand, 12, T

C-QUAM is the ack FCC AM radio rule tion of interference st er quality stations; ex pre-emphasis standar

- JOKR, JOQR, a: have equipment insta
 • MPT licensing: 1

 - Station "proofs":On air: 9:00 AM,
 - Several addition:

South Africa—Stan United Kingdom-1 France—Test proces Spain—Two station

Canada—Standard, Mexico—Standard, South America—Br bia, 1; and Argentina.

Australia-Standar PRC, 2; and Philippin

INGREDIENTS

CONSUMERS

LISTENERS

CESSARY

OR

lave it. tion of uncertainty

iversion.

do not participate.

arket with non-auto

Japan—C-QUAM standard, 5.

Region 1-C-QUAM standard in South Africa, 4; test proceedings in U.K. and France; and Spain, 2.

Region 2—C-QUAM standard in Canada, 80, in Mexico, 3, and Brazil, 19; five

other South American countries, 11.

Region 3-C-QUAM standard in Australia, 80; others broadcasting C-QUAM include, Thailand, 12, Taiwan, 5, Hong Kong, 3, PRC, 2, and the Philippines.

C-QUAM is the acknowledged de facto standard, >650 stations.

FCC AM radio rulemaking released—AM stereo made a preference item—Reduction of interference standards and incentives; revitalization through fewer, but higher quality stations; expanded band: higher quality service rules; and NRSC receiver pre-emphasis standards also endorsed by FCC.

- JOKR, JOQR, and JOLF in Tokyo, Manichi Broadcasting and ABC in Osaka have equipment installed.

 • MPT licensing: 1/92.

 • Station "proofs": 2/92.

 • On air: 9:00 AM, 3/15/92!

 - Several additional stations expected to join in 2nd quarter.

REGION 1

South Africa-Standard, 4. United Kingdom—Test proceeding in process. France—Test proceeding in process. Spain—Two stations.

REGION 2

Canada—Standard, >80. Mexico-Standard, 3.

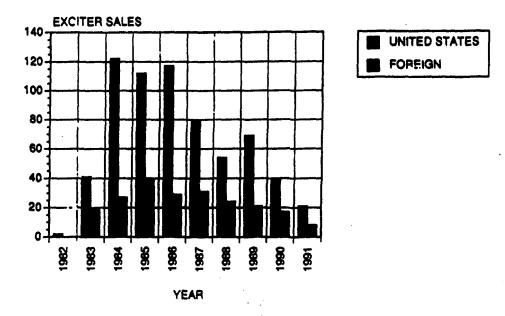
South America—Brazil, standard, 19; Venezuela, 7; Chile, 1; Ecuador, 1; Colombia, 1; and Argentina, 1.

REGION 3

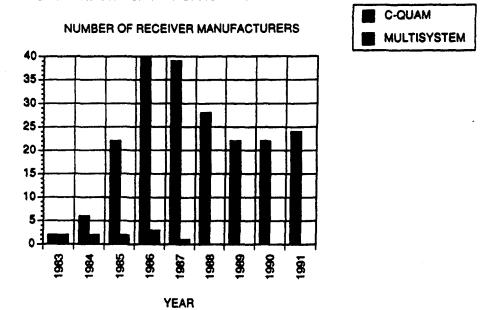
Australia-Standard, >80; Thailand, 12; Taiwan, 5; Hong Kong, 3 (1 pending); PRC, 2; and Philippines, 1 (on air, government standard in progress).

110

TOTAL C-QUAM BROADCAST EQUIPMENT SALES PER YEAR UNITED STATES AND FOREIGN



AM STEREO RECEIVER MANUFACTURER PROGRESSION



NOTE 1: While total receivers are increasing about 2 to 4 million sets per year, the number of manufacturing participants is decreasing.

NOTE 2: There are no multisystem AM stereo receivers being manufactured today.

<u>(4170</u>)	HATES			
ALABAM.				CALIF
Athers		LARGE	770	Et Cer
Atterv		WAG	750	
Browingto	-	WOX	400	
Decetur		1000	1400	Negori
florence				Nesper i
fort Payr	*	5		Lercust
Gededen			730	LOS ATP
Huntaviil Jackgarvi		100	1230	Las Args
Jesper		WAL	810	Los Arge
Jeaguer			1340	Los Arge
Mabile		MZCX	900	Los Arge
Mobile		4/2	960	Los Arge
Macle Se			1450	Los Arge
Reselvit			1150	Los Arge
Tuncologo		ACT	1420	Los Bero
Valley Nex		COX.	870	Modesto
				Modesto
				Crange
SARA				Corend
				Polachie
Anchorage	4		980	Pola Spri
The same		WY	800	Pateriore
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ME1204				fiverside
				Secretary
Glerable	4			Secretary.
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'ER YEAR

ED STATES

AM TISYSTEM GLAN AN STENED LISTING AS OF 9-1 UGA 997 ALESTRALIA 75

CANDA BL OTHER 47
MARIS PILOT TONE COMPATIBLE 37
TOTAL STATIONS ON THE AIR 836

CORRECTIONS ENCOURAGED MOTOROLA 1216 REMINGTON RD SCHAUMBURG IL 80173 PHONE 708-576-3582 FAX 708-576-5478

UNITED STATES									,	-				_
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Fort People	400		Lancaster	CML		Greenwich	100	_	Atlanta	-		East St. Louis		-
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Materille	LEF		Los Argeles	1000	710	Hertford	1000		Atlerta		750	Henerd	VC.	
Jacksonville	w	810	Los Argeles	DEC	1070	Hertford	VTIC		Atlanta	-		LaGranae	WW	
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Anthoreus	15WR	590	Pela Springs	1025	920	Mene			nam.	VEST	1340	Columbus	VCRI	1010
Arms	1347	200	Passatore	GLA	1110	Chiefland	LLON	**	Secret	VOR	1290	formville	u.x	
			Reduck	ACM.	1410	ft. Reyers	LOBI	1380	Storms	Lane	1550	ft. Marke	- C	WSC
MIZOM			tiverside	D IF	1440	Gaingville	- W	850	Thomasville	VAK	1240	Ft. Marre	4000	1380
			Secretarity	ECTC	1320	Hielesh	LARK	-	Valdata	UNC.	910	indiament is	MAC	1070
Glandala	n.#	1360	Secretarito	CHK	1140	Jacksonville	MBC	90	Vidalia	400	970	ireflaremt is	WITZ	1430
Rese	OH	1310	Secremento	DTK.	1530	Jacksonville	LEW	1440	Herrer Robi		(350	Indiarapat is	MOE	1260
Phoenix	1001	960	Secreta	ESSEC.	1240	Key West	MCIS	1900	Mayoress	LANK	1230	Marian	14201	860
Phomis	960	740	Secretarito	COCX	450	Labeland	LON	1230	_,			Harth Warren		1440
Sedera	73	780	Sen Diese	1000	1170	Lehigh Acres	40	1440	ITAM			Princeton	441	1256
Torque	164	1560	San Diese	1750	260	Melborre	ve.	970				South Band	4	960
Yucaan	1728	1450	Sen Francisco	KAR	960	Higmi	LON	540	nila	IFU	670		_	_
Rucean	(767	990	Sen Francisco	1008	1550	Mi-mi	WE	470	Narolulu	ad	50	JQA		
		,,,	Sen francisco	(570	540	#i==i	une.	1210	Marolulu		460	Burt ingten	13.8	1440
MICHEAS			San Rates	607	1050	Migai	WO	410				Coctor Regrida	1006	1400
***************************************			Sente Bertana	CSPE	1490	Milton	VEST	1220	IDAIC			Coder Repids	4	400
Dermott	0004	1110	Sente Bortone	KIST	1340	Ocola	VC	900				Clinton	GEC 6	1540
Ferminaten	CF4Y	1010	Senta Bertara	CTLN	990	Ortanzo	MOD	990	Soise	essot.	æ	Das Moines	400	1460
Forth Swith	1794	950	Senta Maria	12200	660	Ortando	4570	540	Roise		1140	Mason City	620	1300
Little Rock	IDLT	1010	Sente Marie	194	1240	Polatka	VFK.	800	Arter	-	1230	Mason City	1212	1490
			Serce Paule	(27)	1400	Palmetto	400	14.20	idito falls		980	Sian City	042	147C
CALIFORNIA						Percero	-	190	Pacetelle	BAC	1240	Jie City		
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Caryon Country		1220	Derver	1700	750	Sermote	MECK	1280	Character	94	1400	Vichite	10501	1077
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China	1040	1290	Manitou Springs	CETTE	1490	Wildward	WO	440	Chicago	V600	540	acros!		
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	Hi chalan ri i le	WAL	1250	West Terreputh	100	1240	Springfield	KTTS	1260	New York	UTIES	1010	Piga	UPTU	1570		Outpart and		n Œ	550	Housto
	Characters	WJS	14.20	Wordester	VIAG	580	St. Laris	44	950	ter fork	UFAN	440	Totach	14570	1370		East Provid			1110	Maasto
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	Pedicah	LOHE	1450							Petchague	44. PM	1580					Materly		M2	790	radia
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	trackey	1216	1450	Lalamano	400	1470				Albancie	MERCY	1580	Perce City	1007	1ZX		Greenwood	40	- 4		Sen Art
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	terrings	KÆF	1290	PK.Plesserk	Wed	50	Ometer	17.00	1110	Boors	MATA	14.90					Lancaster	LAK.	2 15	60 1	ian Anto
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	hreveport			Aitkin	10C 140	730				New Hope	WUG	750					Cirpaport	MPT	140		
-	lidell	4		Kitbing	W000	650	PA INSTITE			Marken	WAC	1250	Attentoin	446/	WAT.		Crosville	WIW	99		rt ingt:
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		E718		Pipestore	1001	1050	Lebanon	VIZ	1400	Releigh	M CIN	850	Constraint	WC5	% (Jasper	MAPO			untinei
•	BET Planter	062		Richfield	WAYL	980	Partsmuth	MG2	750	Roleigh		1240	Greenspra		8 00		LANTWOODLED	ш	590		teritor
				St. Clad	(042)	1450				Roleigh	UPTF	460	Owster	VCDI	1590		Peryville	1004	112		
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•			1260	MISSISSIPPI			Asbury	WALK	1510	Value forest	WETE	1030	Everett	Vale	104		Namitte	491	650		
			67 0				Lekerood		1170	Unretten Salem		1950	Merrisburg	ue.	581		Seriervitte	MEEA.	920		bullet :
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	ockland		1450	Columbia	الليكا	1450	New Southerick	WCTC	1450				Lafforette	4730	993			W/DI	860		rtecte
				Qui fport	MON	1390	Peterson	LPAT	930	MORTH DAKOEA			Larcaster	u.w	1390		TEVAC				mille
9	MATE AND			Jeckson	MACT	1160	Princeton	uux	1300				Lancaster	M.M	1400		TEXAS				wille
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-A 1440
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FDRST(VANIA(continued)			TDAS(continued)			<u> ASHINGTON</u>			AUESTA(continued)			OJTARIO	3	
Milamelphia	VEAL	540	Big Spring	CEST	1490	ABIT	4386	1210	Calgary	C155	1140	Getteville	C.80	800
Miladelphia	LPROM	950	Branwille	ant	1600	Corrected	RECOVA.	610	Carrone	CFOx	790	Centor (dige	CLAM	960
Pittsburgh	COKA	1020	Corpus Obristi	104	1590	Olympia	STELL STELL	920	Drumbei Ler	0000	910	fort Erie	CUFT	530
Pittsburg	1574	1360	Corpus Owisti	(ZIX	1230	Seattle	KING	1090	Editorican	CFRM	1260	Get	מט	1460
Pittabure	444	970	Corpus Deristi	10.00	1400	Sectio	100	1000	Editorit on	001	860	Hem Lten	OW	820
Reading	-	1340	Dellas	10041	570	-	K.PR	790	Edwarten	CJCA	930	Nem I ton	OHL	900
	week	850	Deltas	CPRC	770	Spokere	IDE.Y	920	Edwarton	060	630	Hamilton	OCC	1150
Awaring Spring	400	1570	Dallas	KVIL	1150	Tecro	CTAC	850	Grand Practic	C) CP	1050	Citcherer	CHOCK	1090
SCHOOL STATE	via	1400	El Page	OEY	440				Letteridge	CACC	1220	Cinastan	G Pt	960
Staro.	MEX	1070	Fort Horsh	UE:	420				Lethbridge	DEC	1090	Einestan	OO.C	1380
tort	WOOD	1250			1270	AEZI ALUCININ			Red Deer	OUGY	1170	London	CET	1290
TOTE	400	120	fort Worth	ŒSS	1400	And Applicate	•		Bact Date:	070	700	Landon	07%	980
			Greenville	IDAL.	1530	Backley	uar.	620	St. Albert	046	1200	London	055	1410
MODE 19.AND			Hart Ingen	10201	-		MIS	1440	Tabar	OTEZ	1570	New Yorket	CKAN	NAME OF THE PERSON
			Houston	DAT	1010	Bluefield Batherner	ANT.	1440	1 45397	Ju	1,510	NOTES BOY	OLE	860
Drainsdac	MCE	550	MOLETON	028	1070		urcs.	1490				Ottom	CASE	540
East Providence	WH	1110	Houston	030	790	faireant				_			C/88	
Providence	LAZ	790	radium	KFRO	1370	MARK SINESON	WEE	800	SKILLEN COTTAGE	•		Ottava		1200
Masterly	VER1	1230	Liebbuck	6710	790	Margentour	MOTE	1300				Ottom	CIW	1310
Mooreacket	481	1380	MidLerd	ICOS	550	Hargerton	VA.JR	1440	Kelanu	000	630	Ottoo	CPMA	540
			Necogoloches	ESFA	860				Largley	021	800	Ridward Hill		640
SOUTH CAROLINA			Pelastine	GET	1450	VI 900/61W			He Mestrinster	O044	980	Serine	OCK	1070
			Peris	CEDE	1250				Prince George	CJCI	620	3 days	000	550
Columbia	WCC	560	Phene	KVJY	840	Appleton	MET	i230	Richword	CIRL	940	SLODLEY	CIO	790
Coreary	MDC7	1050	Reservang	1999	980	Bereboo	LAPO	740	Vercouver	CPLAN	1410	Thurster Bay	CALE	1230
florence	U.Sec	970	Sen Angelo	KAYJ	1260	Mattie	V000	660	Vercouver	CAR	1470	iaranto	CFTR	480
Gramville	VESC	440	San Antonio	EDIX	1350	ford By Lec	IFIZ	1450	Vercouver	COLK	1130	Tarante	Olis	1540
Greenwood	4694	1350	San Arkanio	G.L	760	Green Boy	WE	1400	Vercouver	060	600	Taranto	COET	590
Greenwood	WITT	1090	San Antonio	KSAH	720	Green Bay	VOIE	1360	Venceuver	OGH	1320	Taranta	CF48	1010
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Lancaster	uag.	1560	Sen Antonio	ECCTA	460	Jeckson	WILD	540	Vercouver.	0007	1040	United	OOL	1470
			Torbell	ICSEY	700	La Crosse	ULAI	1490	Victorie	CM	900			
****			Victoria	KWG	1349	Medison	UTOY	1480	Victoria	CFAX	1070	PRINCE EDWARD	19 46	
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			Wichita Falls	EZ;1Pi	770	Managanie	₩ 6 0	.340 .880				Overlotteran	_	630
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ACTION	W.M	1450				Lincoln	WIG	1390				Montreal	OUX	990
Ferregut		670	VERION?			Valkesha	WUX	1510						
Cirgiport	MOT	1400							A MYSYLO			SASKATORIAN		
Cocville	VIV	990	Burt ington	LOOF	1390									
Space ille	4000	1040	Burlington	MARK	420	WORK			Fredericton	CEMI	1260	Moone Jau	OWS	800
Janper	UFFO	620	Mauripel for	480	1240				Moncton	0004	1220	Regire	CJ€	1300
Larerosture	ULC X	590	Weterbury	VOEV	950	Gillette	KIM	1270	Saint Jann	OFFIC	930	Regina	OÆX.	420
Heryville	UCO1	1120	•			Larquie	10,01	1210	Saint John	D6J	700	Saskatoon	000	1250
Aurirestoro	496	1450	VIRGINIA									Sankartoon	OF QC	400
testville	180	760				DISTRICT OF	COLUMBIA		NEWFOLKOUAND			Sasketoon	سن	750
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			Morfolk	WIAR	790	Colgary		1060	Helifax	046	960			1503
			Reciford	WW	1440	Colgary	OR	660	Helstan		450	-,	281	667
_,			Voodstock		1230	Colemy	OCR	770	SACLEA	COGE	1270			1053
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Curborre	201	666	Actors	710	864	Polatine	Radio Contin.	570
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Coffs Nertour	203	639	Robert	738	956		Audio Iromfidencia	965
Gusterd	200	801	Lauceston	7LA	1098	See Louis	ZYNORO	1340
Gaultern	201	1366				See Paule		1150
Kertany	>€	531	VICTORIA				Redio Causto	1120
Lignare	24	900				Porto Alegre	Andio Garito	720
Named Combath	≥ ₩	972	Bellert	304	BK	Orașii io	Radio Braz	980
Macastle	20	1143	Gendigo	380	945	Rio Bejanziro	Audio Harchete	760
No Castle	200	1253	Helbourre	340	1905	Bolom Para	Badio Quejare	1270
Nucestie	30	#13	MeCharas	34	1276	•		
Hacestle Hest		1341	Relbastre	376	1024	CHINA		
terfolk Island		1566	Helbourre	3/2	1179			1530
North Sydney	254	1269	Helba,rne	3.0	7%		fadio bejiang	13.30
Sychey	2	702 1170	Melbourre	34	927 14.22			
Sydney	201		Helbourre		1927	****		
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Sychey	207 2.E	1017 954	Sole	37R 34R	1242 1240	Red id	Radio Popular	900
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Oervin	8 DH	1242	Perth	-	720			
Dervin	808	657		_	-	HEDDO		
						Aurior City	XPR	570
						Recion City	160f	1000
9.FERGLAND						Marries City	180	940
			SOFT AFRICA			tor.		
Ayr	4AY	756						
Gristans	440	1116	Rectop 540 Baptus	tetee	540	Kashsiura		864
Oristone	410	1005	Redio 702 Johan		762	Taipel	ecc	457
Bristore	40	475	Redie 5 Johanne	ma.	576	Total	KORT	567
t ristore	481	#2	Audio OCX		1098	Teidure		720
Bristore	480	1296						
Brisbure	400	122	YOURA			SAMP NO		
Bristore	4	612						
Coirre	404	246	Restio Capital-Ca	reces	710	Payagest	WUB	710
Classor	400	927	Radio Metropolis	tere 1M	H 1550	Separation 1	WEJ	1560
Spapie	461	956	Exions	TVS	Z 1010	Perce	166	1490
Nerbour	455	626	Marida Audio Ex	dte	1540			
Contray	W	1242	Reiquetan Redio			HOSE MOSE		
Rackherpton	40	990	Tuttero	TW	P 1330		Redio V Red	736
Southeart	426	1197	Radio Barres		1990			
Topuspita	400	844					THAILAND	
Torrille	410	774	<u> PAZIL</u>					
							POST	1143
			Fort Alexa	Ind io		1010	HCOT	1494
			Colonia		Artenguers	1230	•	736
SOUTH ALETTALIA			Jaktiero	ZMG		1190	HSAC	1062
Amerika	• • •		Audio Alvorado	24440		1097		
Adelaide	\$40	1323	Herena	man	-	1290		
Adelaide .	SAK	80 1	Hartistro		Cidate	440	SOLUBIA A	
Adelaide	90N	445	Markohal Decetors		•			_
Acteloide	SKA Swa	1197 1593	Parks Grass	Lac tio		1000	Bogsta KJO:	770
	74	CHET	Rio Dejareiro	Rec ito	Merudial	840		